

Message Text

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ACTION EUR-12

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E.O. 11652: N/A
TAGS: BEXP, CZ
SUBJECT: LASER/ELECTRO-OPTICS TSS: JANUARY 1979

REF: (A) USDOC 09479, (B) PRAGUE 1013 (NOTAL)

1. FOLLOWING IS EMBASSY RESPONSE TO POINTS RAISED REF (A):

1 A&B - STATE OF CZECHOSLOVAK INDUSTRY IN THIS FIELD IS
DIFFICULT TO DETERMINE, BUT ONE FTO SOURCE NOTED THAT GOC IS
PUSHING TO DEVELOP AN INTENSIVE PROGRAM IN LASER TECHNOLOGY,
AND CZECHOSLOVAKIA WILL PLAY A MAJOR ROLE IN INTER-CEMA
TRADE IN ELECTRO-OPTICS. ANOTHER SOURCE SAID THAT CURRENT
IMPORTS FROM THE WEST ARE APPROX. 30 UNITS PER YEAR. A
MAJOR CUSTOMER IS THE CZECHOSLOVAK ACADEMY OF SCIENCES WHICH
DETERMINES LASER USE IN MOST RESEARCH INSTITUTES. (THE
ACADEMY HAS AGAIN DELAYED IN RESPONDING TO REQUEST FOR
DETAILS, BUT IF AND WHEN RECEIVED, EMBASSY WILL FORWARD.)
NO FIGURES ARE AVAILABLE ON INVESTMENT PLANS, BUT IT
CAN BE ASSUMED THAT IF, AS STATED, CZECHOSLOVAKIA
HAS AN EDGE IN THE INTER-CEMA TRADE, SCARCE HARD
CURRENCY RESOURCES WILL BE USED TO PROCURE NEEDED
TECHNOLOGY FROM THE WEST.

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1C - IN ADDITION TO ITEMS LISTED IN PARA 2 OF
REF (A), FOLLOWING ARE OF INTEREST AND OFFER SALES
PROSPECTS:

- (A) HIGH EFFICIENCY LASERS IN WOOD MACHINING;
- (B) COUPLERS FOR INTEGRATED OPTICS;

(C) DEVICES WHICH LIMIT STRESSES AND
VIBRATION IN MAUFACTURING APPLICATIONS;
(D) INFRA-RED DEVICES, DETECTORS, MODULATORS;
(E) 3-DIMENSIONAL CONTROLS (NOTE: EXPORT LICENSING
PROBLEMS PROBABLE);
(F) STABLE RESONATORS FOR LASERS;
(G) THIN-FILM COATINGS;
(H) HIGH PERORMANCE LASER INTERFEROMETERS;
(I) COMPONENT PARTS SUCH AS LENSES, HEAT
PUMPS, Q SWITCHES, ETC. THIS LATTER CATEGORY CAN
BE CONSIDERED ONE OF BEST PROSPECTS, PARTICULARLY
IF INTER-CEMA MARKET IS TAKEN INTO ACCOUNT. TESLA
AND MERKURIA (FTO) WILL PROBABLY BE MOST INTERESTED
IN THIS ASPECT OF TSS.

1D - SPECIFIC COMPANIES OF INTEREST ARE: TEXAS
INSTRUMENTS, SECOR (CORNING AND SIEMENS), ITT,
VALTEC, GALILEO, OPTRONICS, IBM, OPTICAL BUSINESS
MACHINES, XEROX, VARIAN GRAPHICS, VERSATEC, GOULD INC.,
GAERTNER SCIENTIFIC, LASER DIODE LABS, MOLECTRON CORP. AND
COHERENT RADIATION. LATTER TWO HAVE BEEN MENTIONED AS ALREADY
EXPORTING TO CZECHOSLOVAKIA, AND EMBASSY SUSPECTS THAT PROBABLY
MAJORITY OF FIRMS LISTED HERE HAVE DONE SOME BUSINESS.

2. TOPICS WHICH CZECHOSLOVAKS WOULD LIKE TO HAVE
DISCUSSED ARE:
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(A) INTERACTION OF ELECTROMAGNETIC HEATING AND
MATERIALS (BOTH REFLECTION AND ABSORPTION DURING
INTENSIVE HEATING;

(B) APPLICATION OF SENSITIVE DETECTORS IN
COMBINATION WITH HELIUM AND NCON LASERS;

(C) INTERFERENCE MEASUREMENT IN GAS LASERS;

(D) MOLECULAR EPITAXY (TO PRODUCE SEMICONDUCTOR
COMPONENTS).

3. ACTION REQUESTED: SINCE TSS PROMISES TO BE OF CONSIDERABLE
INTEREST, PLEASE FORWARD TECHNICAL LITERATURE AS SOON AS AVAIL-
ABLE. FURTHER DETAILS WILL BE PROVIDED AS RECEIVED.
BYRNE

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